ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

FOR GOD AND COUNTRY

WORKSHEET – 35

Topic: Binary Subtraction(using 2s complement)

Subject: COMPUTER SCIENCE **Class - 11** **F.M:15**

Chapter: Data Representation **Date: 25/01/2021**

Choose the correct answer for each question: [5 X 1 = 15]

1) $(10001 - 10)_2$ using 2's complement subtraction gives:
(a) 1001 (b) 1111 (c) – 1011 (d) 1000

2) $(1111 - 11001)_2$ using 2's complement subtraction gives:
(a) – 1010 (b) 1111 (c) – 1011 (d) 1000

3) $(11000 - 111)_2$ using 2's complement subtraction gives:
(a) 10001 (b) 11101 (c) 101 (d) 10101

4) $(11111 - 10101)_2$ using 2's complement subtraction gives:
(a) 1010 (b) 1111 (c) 1011 (d) 1000

5) $(11101 - 101)_2$ using 2's complement subtraction gives:
(a) 10011 (b) 10111 (c) 11010 (d) 11000

6) $(11010 - 101)_2$ using 2's complement subtraction gives:
(a) 10011 (b) 11110 (c) 10101 (d) 1000

7) $(1101 - 10)_2$ using 2's complement subtraction gives:
(a) 1001 (b) 1111 (c) 1011 (d) 1000

8) $(100001 - 11111)_2$ using 2's complement subtraction gives:
(a) 0010 (b) 1111 (c) 1011 (d) 1000

9) $(10000 - 111)_2$ using 2's complement subtraction gives:
(a) 1010 (b) 1001 (c) 1011 (d) 1000

10) $(10001 - 1110)_2$ using 2's complement subtraction gives:
(a) 1010 (b) 0011 (c) 1011 (d) 1000

11) $(10101 - 101010)_2$ using 2's complement subtraction gives:
(a) 0010 (b) – 10101 (c) – 1011 (d) – 1000

12) $(0111 - 1001)_2$ using 2's complement subtraction gives:
(a) – 0010 (b) 1111 (c) – 1011 (d) 1000

13) $(11001010 - 10011010)_2$ using 2's complement subtraction gives:
(a) 01001100 (b) 00001100 (c) 00110000 (d) None of these

14) $(10010011 - 10000111)_2$ using 2's complement subtraction gives:
(a) 01101100 (b) 00001100 (c) – 01001100 (d) None of these

15) $(1010 - 10)_2$ using 2's complement subtraction gives:
(a) 1001 (b) 1011 (c) 1100 (d) 1000

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